

31 4f electron cloud of ions of the rare earth elements of the crystal fields located at an outermost shell of said ferromagnetic grains.

32 Add new claim 45, as follows:)

45. A permanent magnet comprising a ferromagnetic phase and a grain boundary phase in which cations are located in the grain boundary phase, a source of said cations being one or more selected from the group consisting of Be, Mg, Al, Si, P, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Sr, Zr, Nb, ~~Mn~~, Cd, In, Sn, Ba, Hf, Ta, Ir, Tl and Pb, wherein the ferromagnetic phase is matched with the grain boundary phase.

REMARKS

Since the amendment filed June 6, 2001, responded fully to the pending Action, this supplemental amendment may be entered without extension or other relief. With the entry of this amendment, claims 1-4, 44 and 45 will be pending. The amendment to claim 44 is intended to clarify that the crystal fields are produced by rare earth elements in the crystal. Claim 45 is added to round out further the protection to which applicants are entitled.

In response to the Examiner's suggestion to review the specification and correct errors, applicants' undersigned attorney is in the process of doing so but must put this application aside for a few weeks in order to represent a client in a federal court trial. As soon as the trial is concluded and the undersigned has finished reviewing the specification, applicants will submit a substitute specification in both clean and marked-up form, to correct minor typographical errors and to put the application otherwise in good condition for allowance.

Early action allowing claims 1-4, 44 and 45 in this application upon receipt of the substitute specification is solicited.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment, captioned "Version marked to show changes made".

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In the event that the transmittal letter is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief is required, applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 251002009000. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,



Dated: June 18, 2001

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VERSION MARKED TO SHOW CHANGES MADE

In the Claims:

Amend claim 44 as follows:

44. (Amended) A permanent magnet as defined in claim 1, wherein said ferromagnetic phase comprises ferromagnetic grains displaying magnetocrystalline anisotropy by means of crystal fields [comprising] from rare earth elements, and said cations are located in an extending direction of a 4f electron cloud of ions of the rare earth elements of the crystal fields located at an outermost shell of said ferromagnetic grains.

Add new claim 45, as follows:

45. A permanent magnet comprising a ferromagnetic phase and a grain boundary phase in which cations are located in the grain boundary phase, a source of said cations being one or more selected from the group consisting of Be, Mg, Al, Si, P, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Sr, Zr, Nb, Mn, Cd, In, Sn, Ba, Hf, Ta, Ir, Tl and Pb, wherein the ferromagnetic phase is matched with the grain boundary phase.